

[illegible]

Genotypes and haplotypes for thirteen polymorphic sites in the  $\beta_2$ -adrenergic receptor ( $\beta_2$ AR) gene are disclosed. Compositions and methods for predicting genetic predisposition to disease associated with polymorphic sites in the ( $\beta_2$ AR) gene, as well as for predicting response to  $\beta$ -agonists, are also disclosed.